



8931-C MAISLIN DRIVE, TAMPA, FL 33637

FOR 24 HOUR EMERGENCY: CALL CHEM.TEL 1-800-255-3924

FOR INFORMATION: (813) 628-4711

C.A.S. NO.: 5329-14-6

REVISION DATE: December 5, 2002

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

TRADE NAME: Sulfamic Acid Cleaner
DOT SHIPPING NAME: Sulfamic Acid
DOT/UN ID NO.: UN 2967

DOT CLASS: 8

SYNONYMS: Amidosulfonic Acid
LABEL REQUIRED: Corrosive
PACKING GROUP: III

2. INFORMATION ON HAZARDOUS INGREDIENTS

MATERIAL	C.A.S. NO.	% BY WT.	PEL	TLV
Sulfamic Acid	5329-14-6	99.5% Min.	No Data	No Data

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Irritant to skin, nose and respiratory system.

POTENTIAL HEALTH EFFECTS: May irritate skin and respiratory tract. Can cause eye injury.

CARCINOGENICITY: Not listed under OSHA, IARC or NTP.

4. FIRST AID MEASURES

SKIN: In case of skin contact, flush with plenty of water for the contaminated areas and remove contaminated clothing.

EYE: In case of eye contact, immediately flush eye with plenty of water for at least 15 minutes and call a physician.

INGESTION: Do not induce vomiting. For ingestion of Sulfamic Acid, the patient should immediately drink a large amount of water and call a physician.

INHALATION: Get person to fresh air and drink a large quantity of water.

5. FIRE FIGHTING MEASURES

FLASH POINT: Non Combustible.

FLAMMABLE LIMITS: Not Applicable.

EXTINGUISHING MEDIA: Foam.

SPECIAL FIRE FIGHTING PROCEDURE: Do not use water since it forms solutions which are strongly acidic. Use self contained breathing apparatus. Decomposes above 209° C forming toxic fumes.

UNUSUAL FIRE EXPLOSION HAZARD: None Known.

AUTO IGNITION TEMPERATURE: Not Applicable.

6. ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal person hygiene and housekeeping. Store in a cool, dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSHA/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

EYE PROTECTION: Use chemical goggles.

SKIN PROTECTION: Use rubber or neoprene gloves and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES: As required to protect skin and eyes from dust. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE GUIDELINES: None Established.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Not Applicable.

VAPOR PRESSURE (MM Hg): Not Applicable.

VAPOR DENSITY (AIR = 1): Not Applicable.

SPECIFIC GRAVITY (H₂O = 1): 1.25 g/cm³

BULK DENSITY: Not Applicable.

PERCENT VOLATILE BY VOLUME (%): Not Applicable.

MELTING POINT: 205° C (401° F).

EVAPORATION RATE (Butyl Acetate = 1): Not Applicable.

SOLUBILITY IN WATER: 18% by Wt @ 20° C; 43% by Wt @ 70° C.

pH: 1% solution is 1.18 @ 25° C.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperature and pressure.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: At 260° C in a dry atmosphere, it will produce sulfur trioxide, sulfur dioxide, nitrogen, ammonia, sulfuric acid.

KEEP AWAY FROM: Alkalis.

11. TOXICOLOGICAL INFORMATION

Not Available.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

LC₅₀ (96 hr) Rainbow Trout:

EC₅₀ (48 hr) Daphnia Magna:

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed.

14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Sulfamic Acid
TECHNICAL SHIPPING NAME: Sulfamic Acid
DOT HAZARD CLASS: 8
UN/NA NUMBER: UN 2967
PACKING GROUP: III
PRODUCT RQ (lbs): Not Listed.
DOT LABEL: Sulfamic Acid, 8, UN 2967, III
DOT PLACARD: Corrosive
PRODUCT LABEL: Corrosive

15. REGULATORY INFORMATION

This product is on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted.
Section 313 Toxic Chemicals: Unlisted.
Section 311/312 Hazard Category: Immediate (acute) Health Hazard.

16. OTHER INFORMATION

HMIS or NFPA RATING: None Available.

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

< = Less Than

> = More Than

N/A = Not Applicable

ND = Not Determined